

Subject: INFO-HAMS Digest V89 #944  
To: INFO-HAMS@WSMR-SIMTEL20.ARMY.MIL

INFO-HAMS Digest                      Tue, 28 Nov 89                      Volume 89 : Issue 944

Today's Topics:

A Computing Decision: Apple vs. IBM  
    FCC monitoring law  
    How to answer CQ TEST  
Multiband mobile antennas (2 msgs)  
    Need IC-04AT MOD's PLEASE!!!  
    transverters

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Date: 28 Nov 89 23:05:02 GMT  
From: csusac!mmsac!david@ucdavis.ucdavis.edu (David Kensiski)  
Subject: A Computing Decision: Apple vs. IBM

In article <8911280802.AA18984@ucbvax.Berkeley.EDU>  
KENDALLG@VTVM1.CC.VT.EDU ("Gary F. Kendall") writes:

> My dilemma is whether a Macintosh would \*really\* be worth the extra \$\$\$  
> in comparison to an IBM-compatible system...

> (I have to buy something that my wife can use, too!)

It is for that very reason that I now own a Macintosh (SE/30) instead of  
a '386 box. Of course, if I had the '386, I'd run Unix on it, not DOS.

--  
David L. Kensiski, KB6HCN              Martin Marietta Data Systems  
Software Engineer                      1540 River Park Drive, Suite 213  
Phone: (916) 929-8844                  Sacramento, CA 95815  
UUCP: sun!sacto!mmsac!david          INTERNET: david@mmsac@sacto.West.Sun.COM

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Date: 28 Nov 89 19:59:03 GMT  
From: cbmvax!sterling@rutgers.edu (Rick Sterling - QA)  
Subject: FCC monitoring law

In article <1821@atari.UUCP> mn@atari.UUCP (Mike Nowicki) writes:

>  
> With all the flames on this net about snoops vs. uncurious types I for one  
> would like to know EXACTLY what the law says about monitoring various  
> communications.  
> I'm familar with the now obselete law of 1934 that says in essence that  
> you can receive anything that's out there, just don't pass along anything

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> you may hear.
> Now the law has changed and if I put any stock in the rumors, opinions and
> flames, I would conclude you can only listen to international broadcasters,
> public broadcasters and hams.
> Does anyone happen to have a copy of the new FCC law so when can all see
> it?
>
>
> -----
> | Michael Nowicki    N6LUU      Atari Corp,Sunnyvale CA      {ames!atari!mn} |
> | .....|
> | char *disclaimer="Views expressed are my own, not my employer's";      |
> | char *good_quote=" 'Nyuk,nyuk,nyuk,nyuk,nyuk' - Curly Howard";      |
> | -----|

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My personal opinion is that anything other than the rules set forth in the Communications Act of 1934 would be unenforcible and probably unconstitutional.

If some entity using the publicly owned radio spectrum does not want me to receive their signal in my home then they'll just have to keep the signal out of my house.

note: Police States work under different rules, so they above would not apply in some other countries. ;-)

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Rick Sterling                      Commodore Technology Group      (215)-431-9275
Test Engineering                  UUCP ...{uunet,allegra,rutgers}!cbmvax!sterling
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Date: Tue, 28 Nov 89 10:33:17 EST
From: pescatore_jt%ncsd%gte.com@RELAY.CS.NET
Subject: How to answer CQ TEST

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>Date: Sun, 26 Nov 89 15:32 CST
>From: "James P. Ley" <LEY%UWSTOUT.BITNET@CUNYVM.CUNY.EDU>
>Subject: Contests

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>On occasion I hear "CQ Contest" on the air. I do not participate in contests
>myself and wonder whether I should answer the call and give the caller a
>contact or whether I would be a hinderance since I don't know all the numbers
>and things that the testers use and would thus slow him or here down.

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>Any advice from testers?

> Jim, NX9F

Definitely call! But, as a minimum, first listen to the guy calling CQ work a few people and figure out the exchange you should send. If you have enough time, look in QST or CQ magazine to see if it is a DX or domestic contest and what the exchange is. But in most contests (the CQ WW CW/SSB contests the last weekends in October and November and the ARRL DX contest in Feb/March being the only real exceptions) a contact from the US counts as points for a US tester.

What to send? If you hear WB2EKK calling CQ TEST, return with your call sent ONCE. When he sends back NX9F 599 08 (IARU HF contest) you send back the exchange ONCE (599 07 or whatever) and that is it. You don't have to send your call again (unless WB2EKK asks for it and he always gets the call right the first time) and you need only send the exchange once. On CW send at the highest speed you are comfortable with. A good tester will slow down to match your rate.

See you in the 10 meter contest weekend after next. 73 John WB2EKK @N4QQ

PESCATORE\_JT%NCSD@GTE.COM

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Date: 25 Nov 89 00:05:28 GMT  
From: ogccse!little!eagle.hf.intel.com!collier@ucsd.edu  
Subject: Multiband mobile antennas

In article <30500303@ux1.cso.uiuc.edu> phil@ux1.cso.uiuc.edu writes:

>  
>> I have recently purchased a used Yaesu FT-727R handheld, which operates  
>> on both 2m and 70cm. I am quite happy with it, but I have a question  
>> about how best to 'antenna' it. A little quick math shows me that a  
>> 1/4 wave 2m antenna is approximately 20 inches long. This also happens  
>> to be 3/4 wavelength on 450MHz (more or less). What are the impedance  
>> and resonant characteristics of a 3/4 wave antenna? What's the rule:

>This gives you some better broadbandedness on UHF, as 3/4 wave and collinears  
>narrow the bandwidth.

I was wondering just how well a 2M 1/4-wave whip would work as a 3/4-wave 450 MHz whip, so I plugged it into my MiniNec-type program. Turns out that the radiation pattern is pretty strange--like a peak lobe about 35 degrees in elevation. Of course, whether this is acceptable or

not depends on your situation... Antenna seems to load up nicely on 450 MHz, but then again, so does a dummy load...

73's  
Collier Chun  
NM7B  
OEM Microcomputer Platforms Division  
Intel Corporation  
Hillsboro, Oregon

Date: 28 Nov 89 23:24:26 GMT  
From: csusac!mmsac!jim@ucdavis.ucdavis.edu (Jim Lips Earl)  
Subject: Multiband mobile antennas

You said you are considering using the 727 in your mobile. Those things (along with the 209 and 709) have terrible audio, and unless you have a very quiet automobile, you aren't going to be able to hear what people are saying. I have a 709 myself, and while it is barely adequate in quiet surroundings, it leaves much to be desired in noisy surroundings. On the other hand, if you put an external speaker on it, it will be fine. Seems that little wimpy speaker they put in those things just don't cut it. I have a friend who traded his 709 for a 708 (the preceeding model) because the 708 had much better audio. Also, the battery on the 708 lasts all day in rx mode, where the 709 only lasts about 5 or 6 hours. I have a friend who has a 727, and the battery in that thing only lasts about 3-4 hours in continuous receive. When are these designers going to get rid of all this fancy computer-controlled radio stuff that draws too much current in rx mode, shortening the charge time on the radio? I can't tell you how nice it is to have a radio that I can just leave on all day, all on one battery. I realize they have "Battery save circuits", but they don't do that much, and they end up chopping off the first few words of someone when they "freshly" key up.

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-- Jim "Lips" Earl           UUCP: sun!sacto!mmsac!jim  
KB6KCP                     INTERNET: mmsac!jim@sacto.West.Sun.COM
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The opinions stated herein are all mine.

Date: 28 Nov 89 15:19:17 GMT  
From: hpda!hpcuhb!hpscdc!marke@ucbvax.Berkeley.EDU (Mark Espinosa)  
Subject: Need IC-04AT MOD's PLEASE!!!

The subject of "mod's" for the IC-04AT have probably been brought up

before here on the NET, but for some reason I have managed to miss them all. So, if some kind of radio amateur could dig in to his or her files one more time, and post them for me, it would be muchly appreciated. I am specifically looking for the mod's that pertain to out of band operation, and RX audio volume improvement.

Please post or e-mail, and thanks.

Mark Espinosa/WA6RGD

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Date: 28 Nov 89 14:39:59 GMT  
From: mirror!necntc!necis!rbono@CS.BU.EDU (Rich Bono)  
Subject: transverters

In article <530@mjbtc.UUCP>, root@mjbtc.UUCP (Mark J. Bailey) writes:

> Hello,  
>  
> I am interested in getting more information about transverters that work  
> with an HF rig. What VHF/UHF bands can be used? What are some of your  
> personal experiences and comments on them? Who makes them and how can I  
> get in touch with some of these dealers/manufacturers? What I really want  
> to do is add 2 meters (some form) with my Icom IC-740. It is capable of  
> working with a transverter. It might also prove convenient to get access  
> to 50, 220, and 450 MHz, I don't know. Right now, I know next to nothing  
> about them and have had a hard time finding information. Any good articles  
> in past 73's, CQ's, Ham Radio's, or QST's?  
>

Transverters can get you an just about \*any\* band, and for a lot less money than buying a rig that band!!

A note: The ICOM (I think the 740 also has the same output) transverter output (which is REAL handy to have) has an output of 30mv into 50 ohms... (if my math is correct) this is about 18 uw (yes micro-watts).. The commercial transverters that I have seen need a drive of about 1 mw to 500 mw (milli-watts)... So, some power gain will be needed, and the transverter will probably not direct connect to the ICOM radio. By the way, I use an ICOM-735, and have checked the manual for several of the newer rigs... they \*seem\* to have the same transverter levels.

There are several ways that this can be done, a simple gain circuit would only need to operate at 28 to 30 MHz (considering a 10 meter to whatever transverter).

Has anyone done this? Do you have a simple and proven circuit to share with the rest of us?

Another way, would be to attenuate the output of the rig, and bring the 100 Watts down to the 500 mw (milli-watt) level (about 26 Db of attenuation). Some have told me to just lower the output of the rig down to the 10 watt level with the front panel control, and then attenuate that down to the proper level, but I think this would be UNSAFE! What would happen the first time I forget to lower the drive control on the rig, and dumped 100 watts into a circuit that was expecting only 10????

So.... any working solutions out there in net land????

Thanks, Rich (NM1D).

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/*****\
* Rich Bono (NM1D)    If I could only 'C' forever!!    rbono@necis.nec.com *
* (508) 635-6300      NEC Technologies Inc.             NM1D@WB1DSW *
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